

Appendix Table. Genes analyzed by PCR and primers used, for group C streptococci, from 8 dairy herds, Portugal

Primer	Sequence (5' ? 3')	Expected product, bp	Reference
Prophage-associated virulence determinants			
Pyrogenic exotoxins			
ssa (forward)	GTGTAGAATTGAGGTAAATTG	706	(6)
ssa (reverse)	TAATATAGCCTGTCCTCGTAC		
speA (forward)	CTTAAGAACCAAGAGATGGC	200	(6)
speA (reverse)	ATAGGCTTGAGGATACCACCG		
speC (forward)	CATCTATGGAGGAATTACGC	246	(6)
speC (reverse)	TGTGCCAATTCGATTCTGC		
speH (forward)	AGATTGGATATCACAGG	416	(6)
speH (reverse)	CTATTCTCTCGTTATTGG		
spel (forward)	AAGGAAAAATAATGAAGGTCCGCCAT	217	(7)
spel (reverse)	TCGCTTAAAGTAATACTCCATATGAATTCTTT		
speJ (forward)	ATCTTCATGGGTACG	535	(6)
speJ (reverse)	TTTCATGTTATTGCC		
speK (forward)	TATCGCTTGCTCTATACACTACTGAGAGT	233	(7)
speK (reverse)	CCAAACTGTAGTATTTCATCCGTATTAAA		
speL (forward)	GGACGCAAGTTATTATGGATGCTCA	460	(7)
speL (reverse)	TTAAATAAGTCAGCACCTCCTCTTCTC		
speM (forward)	GCTTTAAGGAGGAGGAGGTTGATATTATGCTCA	411	(7)
speM (reverse)	CAAAGTGACTTACTTACTCATATCAATCGTTTC		
DNase 1			
spd1 (forward)	CCCTTCAGGATTGCTGTCAT	400	(8)
spd1 (reverse)	ACTGTTGACGCAGCTAGGG		
Phospholipase A2e			
slaA (forward)	CTCTAATAGCATGGCTACGC	440	(8)
slaA (reverse)	AATGGAAAATGGCACTGAAAG		
Composite transposon			
Tn 1207.3/F10394.4 RJ* (forward)	CGAGGGAGTTAGTATGGAAAC	473	(9)
Tn 1207.3/F10394.4 RJ* (reverse)	CCCATAATAGGCAACTGGTCTCCAGC		
Tn 1207.3/F10394.4 LJ* (forward)	TCTTCGCCGCATAAACCCATAC	453/6,807†	(9)

Tn 1207.3/F10394.4 LJ\* (reverse)

CCTTGACCAATGAAGTGACCTT

## Antimicrobial drug resistance determinants

## Macrolide resistance

<i>mef</i> (A) (forward)	GACCAAAAGCCACAATTGTGGA	1,432	(10)
<i>mef</i> (A) (reverse)	CCTCCTGTCTATAATCGCATG		
<i>erm</i> (A) [subclass <i>erm</i> (TR)] (forward)	CCCGAAAAATACGCAAATTTCAT	590	(10)
<i>erm</i> (A) [subclass <i>erm</i> (TR)] (reverse)	CCCTGTTTACCCATTATAAACG		
<i>erm</i> (B) (forward)	GGAGTGATACATGAACAAAAATA	531	(10)
<i>erm</i> (B) (reverse)	TTCCTTTAGTAACGTGTAACTT		

## Tetracycline resistance

<i>tet</i> (M) (forward)	TGGAATTGATTATCAACGG	1,080	(10)
<i>tet</i> (M) (reverse)	TTCCAACCATAACAATCCTTG		
<i>tet</i> (O) (forward)	AACTTAGGCATTCTGGCTCAC	515	(11)
<i>tet</i> (O) (reverse)	TCCCACTGTTCCATATCGTCA		
<i>tet</i> (T) (forward)	AAGGTTTATTATATAAAAGTG	169	(12)
<i>tet</i> (T) (reverse)	AGGTGTATCTATGATATTAC		
<i>tet</i> (W) (forward)	GAGAGCCTGCTATATGCCAGC	168	(12)
<i>tet</i> (W) (reverse)	GGCGTATCCACAATGTTAAC		
<i>tet</i> (Q) (forward)	TTATACTTCCTCCGGCATCG	904	(11)
<i>tet</i> (Q) (reverse)	ATCGGTTCGAGAATGTCCAC		
<i>tet</i> (S) (forward)	GAAAGCTTACTATACAGTAGC	169	(12)
<i>tet</i> (S) (reverse)	AGGAGTATCTACAATATTAC		
<i>tet</i> (L) (forward)	TCGTTAGCGTGCTGTCATT	267	(11)
<i>tet</i> (L) (reverse)	GTATCCCACCAATGTAGCCG		
<i>tet</i> (K) (forward)	TCGATAGGAACAGCAGTA	169	(11)
<i>tet</i> (K) (reverse)	CAGCAGATCCTACTCCTT		

## Lincosamide resistance

<i>lin</i> (B) (forward)	CCTACCTATTGTTGTGGAA	925	(13)
<i>lin</i> (B) (reverse)	ATAACGTTACTCTCCTATT		

## M protein

<i>emm</i> (forward)	TATT(C/G)GCTTAGAAAATTAA	Variable	‡
<i>emm</i> (reverse)	GCAAGTTCTCAGCTTGT		

\*RJ, right junction; LJ, left junction.

†The expected amplicon size was 454 bp according to the reported organization of the Tn1207.3 element or 6,807 bp according to the reported sequence of F10394.4 (9).

